

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-715
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TGM4.6VJGFEL Displacement: 4.0 Liters (240 Cubic Inches)
4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Exhaust Gas Recirculation
- Three Way Catalytic Converter
- Dual Heated Oxygen Sensors
- Heated Oxygen Sensors (Two)
- Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards (alternative in-use compliance standards in parentheses) for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.25 (0.32)	3.4 (5.2)	0.4 (n/a)	10.0 (n/a)
100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.15	1.7	0.2	6.5
100,000	0.20	2.4	0.2	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 5th day of May, 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

(FOR CARB USE ONLY)

E.O. #A-6-715

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS: 1 J C 3 7 (EXAMPLE)

Digit 1 - Selling Division

- 1 - Chevrolet
- 2 - Pontiac
- 3 - Oldsmobile
- 4 - Buick
- 6 - Cadillac
- 8 - Saturn

Digit 2 - Body Designation

- A - Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- B - Caprice, Custom Cruiser, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster
- C - Ninety-Eight, Park Avenue
- D - Fleetwood, Limousine, Hearse/Coachbuilder
- E - Eldorado
- F - Camaro, Firebird, Trans Am
- G - Riviera, Aurora
- H - Bonneville, Eighty-Eight, LeSabre
- J - Cavalier, Sunfire
- K - Seville
- Ksp - Concours, Deville
- L - Corsica, Beretta
- N - Grand Am, Cutlass Calais, Skylark
- W - Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo
- Y - Corvette
- Z - Saturn Coupe/Sedan

Digit 3 - Trim Level

B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z

Digits 4 & 5 - Body Style

- | | |
|----------------------------|----------------------------|
| 07 - 2Dr Sport Coupe | 57 - 2Dr Hardtop Coupe |
| 08 - 2Dr Hatchback Coupe | 67 - 2Dr Convertible Coupe |
| 19 - 4Dr Sedan | 68 - 4Dr Hatchback Sedan |
| 27 - 2Dr (Notchback) Coupe | 69 - 4Dr (Notchback) Sedan |
| 35 - 4Dr Station Wagon | 87 - 2Dr Hatchback Coupe |
| 37 - 2Dr Hardtop Coupe | 90 - Commercial Chassis |
| 47 - 2Dr Hardtop Coupe | 97 - 2Dr Hardtop Coupe |

ISSUED: ML-TP032

REVISED:

17-TGM4.6VJGFEL-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.6VJGFEL
 EVAP STD: 50K_X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1089AYPAA
 EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X
 VEH CLASS(ES): PC_X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 EXH CERT FUEL(S): INDO___ PH2_X DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___
 OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)_____
 FUEL TYPE(S): DEDICATED___ FLEX-FUEL___ DUAL-FUEL___ GASOLINE_X DIESEL___ M85___
 CNG___ LNG___ LPG___ OTHER (SPECIFY)_____
 HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA
 ENGINE CONFIGURATION: V8 DISPLACEMENT: 4.6 LITERS 280 CUBIC INCHES
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD_X RWD_* 4WD-FT___ 4WD-PT___
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: EGR-TWC-SFI-2HO2S+(2)

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) CALIB/PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
1.1A	6KY69 6ET57	A4/2	4250	16216546/BNXX	17094028	25161559
-1B C 1E 1F				16229206/BRYR 16229316/16214848 16233286/16214848 16234626/16214848		
2.2A	6ET57 6KY69 6KF69			16216556/BNXY		
2B 2C 2E 2F				16229216/BRYS 16229326/16214848 16233296/16214848 16234636/16214848		
3	6EL57 6KS69 6KD69	A4/1	4000 4250	16216526/BNXU		
3A 3B 3D 3E				16229186/BRYN 16229306/16214848 16233276/16214848 16234616/16214848		

CARLINE NAME	CARLINE CODE
SEVILLE	10005
ELDORADO	10020
DEVILLE	10010

ISSUED: ML-TP032 REVISED: ML-TR001, ML-TR002, ML-TR005, ML-TR029, ML-TR064,
 ML-TR093 17-TGM4.6VJGFEL-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.6VJGFEL
 EVAP STD: 50K X USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1070AYPAA
 EXH STD: TIER-0___ TIER-1 X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1 X
 VEH CLASS(ES): PC X LDT1___ LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 EXH CERT FUEL(S): INDO___ PH2 X DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___
 OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)_____
 FUEL TYPE(S): DEDICATED___ FLEX-FUEL___ DUAL-FUEL___ GASOLINE X DIESEL___ M85___
 CNG___ LNG___ LPG___ OTHER (SPECIFY)_____
 HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA
 ENGINE CONFIGURATION: V8 DISPLACEMENT: 4.0 LITERS 240 CUBIC INCHES
 ENGINE: FRONT X MID___ REAR___ DRIVE: FWD X RWD___ 4WD-FT___ 4WD-PT___
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: EGR-TWC-SFI-2HO2S+(2)
 RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) CALIB/PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
4	3GR29	A4/1	4250	16216646/BNYK	17094028	25161933
4A				16229286/BRZA		
4B				16229336/16214848		
4D				16233306/16214848		
4E				16234646/16214848		
5	3GR29			16216656/BNYL		
5A				16229296/BRZB		
5B				16229346/16214848		
5D				16233316/16214848		
5E				16234656/16214848		

CARLINE NAME
AURORA

CARLINE CODE
29045

ISSUED: ML-TP032

REVISED: ML-TR002, ML-TR005, ML-TR029, ML-TR064, ML-TR093

17-TGM4.6VJGFEL-3